

## ABSTRACT OF THE DISCLOSURE

5 A positive electrode active material is a layered lithium  
manganese compound represented by a general formula  $\text{Li}_{1-x}\text{MO}_2$ , where  
x is a lithium-deficient quantity and larger than 1/5, and M is manganese  
or metals of two or more kinds containing manganese as a main  
component. The metals are preferably 3d-transition metals. The  
positive electrode active material has a high capacity and is excellent in  
structure stability. A rechargeable lithium-ion battery uses a positive  
10 electrode material containing the positive electrode active material and  
is excellent in cyclic stability.